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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1. (previously presented) A compound of formula (1):

$$\mathbb{R}^4$$
 $\mathbb{R}^5$ 
 $\mathbb{R}^5$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 

wherein:

R4 and R5 together are either -S-C(R6)=C(R7)- or -C(R7)=C(R6)-S-:

R<sup>6</sup> and R<sup>7</sup> are independently selected from hydrogen, halo, nitro, cyano, hydroxy, fluoromethyl, difluoromethyl, trifluoromethyl, trifluoromethoxy, carboxy, carbamoyl, (1-4C)alkyl, (2-4C)alkynyl, (1-4C)alkoxy and (1-4C)alkanoyl;

A is phenylene;

n is 0, 1 or 2;

R¹ is independently selected from halo, nitro, cyano, hydroxy, carbaxy, carbamoyl, N-(1-4C)alkylcarbamoyl, N,N-((1-4C)alkyl)₂carbamoyl, sulphamoyl, N-(1-4C)alkylsulphamoyl, N,N-((1-4C)alkyl)₂sulphamoyl, -S(O)₀(1-4C)alkyl (wherein b is 0,1,or 2), -OS(O)₂(1-4C)alkyl, (1-4C)alkyl, (2-4C)alkynyl, (1-4C)alkoxy, (1-4C)alkoxyl, (1-4C)alkanoyl, (1-4C)alkanoyl, (1-4C)alkanoyl, (1-4C)alkanoyloxyl, hydroxy(1-4C)alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, trifluoromethoxy and -NHSO₂(1-4C)alkyl;

or, when n is 2, the two R<sup>1</sup> groups, together with the carbon atoms of A to which they are attached, may form a 4 to 7 membered saturated ring optionally being substituted by one or two methyl groups;

one of R<sup>2</sup> and R<sup>3</sup> is selected from R<sub>N</sub>a, and the other is selected from R<sub>N</sub>b;

R<sub>Na</sub>: (1-3C)alkyl, halo(1-3C)alkyl, dihalo(1-3)alkyl, trifluoromethyl, hydroxy(1-3C)alkyl, dihydroxy(2-3C)alkyl, cyano(1-3C)alkyl (optionally substituted on alkyl with hydroxy), methoxymethyl, ethoxymethyl, methoxyethyl, methoxymethyl, dimethoxyethyl, (hydroxy)(methoxy)ethyl, (amino)(hydroxy)(2-3C)alkyl, (aminocarbonyl)(hydroxy)(2-3C)alkyl, (methylaminocarbonyl)(hydroxy)(2-3C)alkyl, (dimethylaminocarbonyl)(hydroxy)(2-3C)alkyl,

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or a pharmaceutically acceptable salt thereof.

(methylcarbonylamino)(hydroxy)(2-3C)alkyl, (methylS(O)<sub>p</sub>-)(hydroxy)(2-3C)alkyl (wherein p is 0, 1 or 2):

R<sub>N</sub>b: (1-4C)alkyl, halo(1-4C)alkyl, dihalo(1-4C)alkyl, trifluoromethyl, hydroxy(1-4C)alkyl, dihydroxy(2-4C)alkyl, trihydroxy(3-4C)alkyl, cyano(1-4C)alkyl (optionally substituted on alkyl with hydroxy), (1-4C)alkoxy(1-4C)alkyl, (1-4C)alkoxy(1-4C)alkyl, dil(1-4C)alkoxy)(2-4C)alkyl, (amino)(hydroxy)(2-4C)alkyl, (aminocarbonyl)(hydroxy)(2-4C)alkyl, (aminocarbonyl)(hydroxy)(2-4C)alkyl, (di(1-4C)alkylaminocarbonyl)(hydroxy)(2-4C)alkyl, (di(1-4C)alkylaminocarbonyl)(hydroxy)(2-4C)alkyl, ((1-4C)alkylaminocarbonyl)(hydroxy)(2-4C)alkyl, ((1-4C)alkylarbonylamino)(hydroxy)(2-4C)alkyl, ((1-4C)alkyls(O)<sub>b</sub>-)(hydroxy)(2-4C)alkyl (wherein p is 0, 1 or 2); wherein any alkyl or alkoxy group within any group in R<sub>N</sub>A and R<sub>N</sub>B may also optionally be substituted on an available carbon atom with a hydroxy group (provided that said carbon atom is not already substituted by a group linked by a heteroatom); provided that if R<sup>2</sup> is (1-3C)alkyl or (1-4C)alkyl hen R<sup>3</sup> is not (1-4C)alkyl or (1-3C)alkyl:

- 2. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, wherein  $R^2$  is selected from  $R_Na$ , and  $R^3$  is selected from  $R_Nb$ , wherein  $R_Na$  and  $R_Nb$  are as defined in Claim 1.
- 3. (cancelled)
- 4. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, wherein n is 0.
- 5. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, wherein R<sup>6</sup> and R<sup>7</sup> are independently selected from hydrogen and halo.
- (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, wherein R<sup>6</sup> and R<sup>7</sup> are independently selected from hydrogen and chloro.

- 7. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, wherein  $R_N a$  is selected from (1-4C)alkyl, hydroxy(1-4C)alkyl, and (1-4C)alkoxy(1-4C)alkyl.
- 8. (previously presented) A compound of formula (1) as claimed in Claim 1, or a pharmaceutically acceptable salt thereof, which is a compound of formula (1A):

$$R^4$$
 $R^5$ 
 $R^5$ 
 $R^2$ 
 $R^3$ 
 $R^3$ 
 $R^4$ 
 $R^5$ 
 $R^4$ 
 $R^3$ 
 $R^4$ 
 $R^3$ 
 $R^4$ 
 $R^3$ 

wherein R1 to R7. A and n are as defined in claim 1.

- 9. (cancelled)
- 10. (original) A pharmaceutical composition which comprises a compound of the formula (1), or a pharmaceutically acceptable salt thereof, as claimed in claim 1 in association with a pharmaceutically-acceptable diluent or carrier.
- 11-15. (cancelled)
- 16. (currently amended) A process for the preparation of a compound of formula (1) as claimed in claim 1, which process comprises: reacting an acid of the formula (2):

$$\mathbb{R}^4$$
  $\mathbb{N}$   $\mathbb{N}$ 

or an acid chloride or ester activated derivative thereof; with an amine of formula (3):

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$$R^2$$
 $R^3$ 
 $H_2N$ 
 $A$ 
 $(R^1)_n$ 

and thereafter if necessary:

- i) converting a compound of the formula (1) into another compound of the formula (1);
- ii) removing any protecting groups;
- iii) forming a pharmaceutically acceptable salt.
- 17. (previously presented) A compound of formula (1), or a pharmaceutically acceptable salt thereof, selected from:
- 2-chloro-*N*-{(1*R*,2*R*)-1-[(methoxyacetyl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-b]pyrrole-5-carboxamide:
- 2-chloro-*N*-{(1*R*,2*R*)-1-[[3-hydroxy-2-(hydroxymethyl)propanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl]-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;
- ethyl 3-[((1*R*.2*R*)-2-{[(2-chloro-6*H*-thieno[2,3-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)(methyl)amino]-3-oxopropanoate;
- 2-[((1R,2R)-2-[(2-chloro-6H-thieno[2,3-b]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl)(methyl)amino]-2-oxoethyl acetate;
- 2-chloro-*N*-{(1*R*,2*R*)-1-[glycoloyl(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-b]pvrrole-5-carboxamide:
- 2-chloro-N-{(1R,2R)-1-[glyceroyl(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-blovrrole-5-carboxamide:
- 2-chloro-*N*-{(1*R*,2*R*)-1-[((2*S*)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;
- 2-chloro-N-{(1R,2R)-1-[[(2R)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1H-inden-2-yl}-6H-thieno[2,3-b]pyrrole-5-carboxamide;
- 2-chloro-*N*-{(1*R*,2*R*)-1-[(3-hydroxypropanoyl)(methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;
- 2-chloro-*N*-{(1*R*,2*R*)-1-[glycoloyl(2-hydroxyethyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;

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- 2-chloro-*N*-{(1*R*,2*R*)-1-[[(2*R*)-2-hydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide;
- $2-chloro-N-\{(1R,2R)-1-[[(2S)-2-hydroxypropanoyl](methyl)amino]-2,3-dihydro-1H-inden-2-yl\}-6H-thieno[2,3-b]pyrrole-5-carboxamide;$
- 2,3-dichloro-*N*-{(1*R*,2*R*}-1-[[(2*R*)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-vl}-4*H*-thienol3.2-blpvrrole-5-carboxamide
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2S)-2,3-dihydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl)-4*H*-thleno[3,2-b]pyrrole-5-carboxamide;
- $(2S)-N^1-((1R,2R)-2-[[(2-chloro-6H-thieno[2,3-b]pyrrol-5-yl)carbonyl]amino]-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N^1-methylsuccinamide;$
- (2S)-N<sup>1</sup>-((1R,2R)-2-[((2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)-2-hydroxy-N<sup>1</sup>-methylsuccinamide:
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2S)-2-hydroxybutanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno/3,2-*b*)pyrrole-5-carboxamide:
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2*S*)-2-hydroxy-3-methylbutanoyl](methyl) amino]-2,3-dihydro-1*H*-inden-2-yl]-4*H*-thleno[3,2-b]pyrrole-5-carboxamide;
- $2, 3- dichloro- \textit{N-}\{(1R, 2R)-1-[[(2S)-4-(1, 3- dioxo-1, 3- dihydro-2\textit{H-}isoindol-2-yl)-2- hydroxy, 1-(1, 3- dioxo-1, 3- dioxo-1,$
- $but an oyl] (methyl) amino] -2, 3-dihydro-1 \\ H-inden-2-yl\}-4 \\ H-thieno [3,2-b] pyrrole-5-carboxamide;$
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2*R*)-2-hydroxy-3-(methylthio)propanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-vl)-4*H*-thieno[3,2-b]pyrrole-5-carboxamide:
- tert-butyl {(2S)-3-[((1R,2R)-2-[[(2,3-dichloro-4H-thieno[3,2-b]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1H-inden-1-yl)(methyl)amino}-2-hydroxy-3-oxopropyl}carbamate;
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2*S*)-3-cyano-2-hydroxypropanoyl](methyl) amino]-2,3-dihydro-1*H*-inden-2-yl}-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;
- $N-\{(1R,2R)-1-\{(N-acetylseryl)(methyl)amino\}-2,3-dihydro-1H-inden-2-yl\}-2-chloro-6H-thleno[2,3-b]$ pyrrole-5-carboxamide;
- $N-\{(1R,2R)-1-[(N-acetylseryl)(methyl)amino]-2,3-dihydro-1H-inden-2-yl\}-2,3-dichloro-4H-thieno[3,2-b]pyrrole-5-carboxamide;$
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[methyl(L-seryl)amino]-2,3-dihydro-1*H*-inden-2-yl]-4*H*-thieno[3,2-b]pyrrole-5-carboxamide hydrochloride;
- 2-chloro-*N*-{(1*R*,2*R*)-1-[methyl(L-seryl)amino]-2,3-dihydro-1*H*-inden-2-yl}-6*H*-thieno[2,3-b]pyrrole-5-carboxamide hydrochloride;
- $(2S)-N^{l}-((1R,2R)-2-[[(2-\text{chloro-}6H-\text{thieno}[2,3-b]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N^{l}-methylpentanediamide;$

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- $(2S)-N^{-}((1R,2R)-2-[(2,3-dichloro-4H-thieno[3,2-b]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1H-inden-1-yl)-2-hydroxy-N^{-}methylpentanediamide;$
- 2-chloro-*N*-{(1*R*,2*R*)-1-[[(2*S*)-2-hydroxy-3-methoxypropanoyl](methyl) amino]-2,3-dihydro-1*H*-inden-2-yl)-6*H*-thieno(2,3-*b*)pyrrole-5-carboxamide;
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2*S*)-2-hydroxy-3-methoxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-vl}-4*H*-thieno(3.2-*b*]pyrrole-5-carboxamide:
- 2,3-dichloro-*N*-{(1*R*,2*R*)-1-[[(2*R*)-2-hydroxy-3-(methylsulfonyl)propanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl)-4*H*-thieno[3,2-*b*]pyrrole-5-carboxamide;
- N-{(1R,2R)-1-[[(2S)-3-amino-2-hydroxypropanoyl](methyl)amino]-2,3-dihydro-1*H*-inden-2-yl}-2,3-dihloro-4*H*-thieno[3,2-b]pyrrole-5-carboxamide hydrochloride;
- (2S)-N<sup>1</sup>-((1R,2R)-2-{[(2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrol-5-yl)carbonyl]amino}-2,3-dihydro-1*H*-inden-1-yl)-2-hydroxy-N<sup>1</sup>.N<sup>4</sup>-dimethylsuccinamide:
- (2S)-N<sup>1</sup>-((1R,2R)-2-[[(2,3-dichloro-4*H*-thieno[3,2-*b*]pyrrol-5-yl)carbonyl] amino}-2,3-dihydro-1*H*-inden-1-yl)-2-hydroxy-N<sup>1</sup>.N<sup>4</sup>.N<sup>4</sup>-trimethylsuccinamide:
- 2-chloro-N-{(1R,2R)-1-[glyceroyl(2-hydroxyethyl)amino]-2,3-dihydro-1H-inden-2-yl}-6H-thieno[2,3-b]pyrrole-5-carboxamide;
- 2-chloro-*N*-{(1*R*,2*R*)-1-[[(2*R*)-2,3-dihydroxypropanoyl](2-hydroxyethyl)amino]-2,3-dihydro-1*H*-inden-2-vl]-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide; and
- 2-chloro-*N*-{(1*R*,2*R*)-1-[[(2*S*)-2,3-dihydroxypropanoyl](2-hydroxyethyl)amino]-2,3-dihydro-1*H*-inden-2-yl]-6*H*-thieno[2,3-*b*]pyrrole-5-carboxamide.
- 18. (withdrawn) A method of producing a glycogen phosphorylase inhibitory effect in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.
- 19. (withdrawn) A method of treating type 2 diabetes, insulin resistance, syndrome X, hyperinsulinaemia, hyperglucagonaemia, cardiac ischaemia or obesity in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.
- 20. (withdrawn) A method of treating type 2 diabetes in a warm-blooded animal, such as man, in need of such treatment which comprises administering to said animal an effective amount of a compound of formula (1) as claimed in claim 1.